

CLAIMS

1. A disk drive carrier comprising:
  - a base for receiving a disk drive; and
  - a latching mechanism rotatably attached to the base permitting a lever to rotate between an open position and a closed position;
  - said lever having a lower engagement point and an upper engagement point.
2. The disk drive carrier of claim 1 additionally comprising a release tab attached to the upper engagement point, said release tab being downwardly movable.
3. The disk drive carrier of claim 1 wherein the lower engagement point comprises a lug.
4. The disk drive carrier of claim 1 wherein the upper engagement point comprises a shoulder.
5. The disk drive carrier of claim 1 additionally comprising a securement pad attached to the latching mechanism.
6. The disk drive carrier of claim 1 additionally comprising a handle calculating carrier insertion into the chassis, the handle being attached to the lever.
7. The disk drive carrier of claim 1 wherein the latching mechanism is formed of molded plastic.
8. The disk drive carrier of claim 1 wherein the latching mechanism comprises polycarbonate plastic.
9. A base for mounting a disk drive, the base comprising:
  - a channel formed with an upper surface comprising a substantially flat interior, a lower surface comprising a substantially flat interior and a side wall with a finned exterior.
10. The base of claim 9 wherein the upper surface interior and the lower surface interior are contoured to compliment an exterior surface of a hard drive to be mounted between the upper and lower surfaces.
11. The base of claim 9 additionally comprising retention clips mounted in slots in the upper surface and slots in the lower surface.
12. The base of claim 9 wherein the retention clips comprise spring steel.

- 1 13. The base of claim 9 wherein the base comprises an electrically and thermally  
2 conductive material.
- 1 14. The base of claim 9 wherein the base comprises aluminum.
- 1 15. An electromagnetic interference shield attached to a disk drive carrier, said  
2 electromagnetic interference shield comprising:  
3 a multi-venthole frontal plate connected at a substantially right angle to a side panel;  
4 and  
5 the side panel housing at least one electrically conductive finger clip protruding in a  
6 lateral direction.
- 1 16. The electromagnetic interference shield of claim 15 wherein the shield comprises  
2 steel.
- 1 17. The electromagnetic interference shield of claim 15 wherein the conductive finger  
2 clip comprises spring steel.
- 1 18. A method for inserting a disk drive into a peripheral bay chassis comprising:  
2 receiving a disk drive into a base of a disk drive carrier, said base being rotatably  
3 attached to a latching mechanism, wherein a lever can rotate between an open  
4 position and a closed position, said lever having a lower engagement point and an  
5 upper engagement point;  
6 inserting the carrier into a peripheral bay chassis slot while the lever is in an open  
7 position; and  
8 rotating the lever to the closed position to engage the peripheral bay chassis with the  
9 lower engagement point and the upper engagement point.
- 1 19. The method of claim 18 with the additional step of contacting an adjacent disk drive  
2 with at least one electrically conductive finger clip prior to engagement of a high  
3 speed back plane with a disk drive connector.
- 1 20. The method of claim 18 with the additional step of depressing a release tab prior to  
2 rotating the lever into the closed position and releasing the release tab after engaging  
3 the lower engagement point.